

### DRAFT (POP NOT YET APPROVED)

# Lerc Microgravity Science Program POP 98-1 GUIDELINE CONTENT ISS TRAFFIC MODEL ASSY SEQUENCE (REV D)

PROGRAM MANAGER: J. SALZMAN BASELINE AS OF: 5/11/98 STATUS AS OF: 6/22/98

wis Research Center																	OLIVOL	-	<u> </u>						JF: 6/22/9		
	1996			97				98				9			000			01	1		02			03			1
PROJECT	4-4			446	4-4			446	4-4			445	4-4	FY 2000	441-	4-4	FY 2001	446	FY	2002	445 4 1	FY	2003	441-			441
	O N D	J F M	A M J	J A S	O N D	J F M	A M J	J A S	O N D	J F M	ara	4th	O N D	J F M A M J	J A S	O N D	J F M A M J	J A S O N	D J F N	3rd 1 A M J	J A S O N	D J F N	3ra	J A S C	NDJF	M A M J	J A S
ISS MILESTONES									FGB S	ERVICE	SOY	'UZ I	JS LAB	UF-1	UF-2	SCEN PLAT	ICE POWER	JEM DELIVERY					CRV #1	UF-6	UF-7		
ISS FACILITIES													ER	∧ Msg													
FCF							Review					PDR							SYS CDR								
CIR												CDR						FHA									
FIR												PDR			CDR						UF-5 FIR						
SAR												PDR					d-CDF	2			,		FHA				
TELESCIENCE																											
TSC Phase I								SRR						UF-1													
TSC Phase 2														SRR 		SAR			UF-3								
ISS UTILIZATION							Plar	ning Pe	eriod 1		nont 1	Incre.	2	Increment 4				d 4		Plannin	g Period 5	Planni	ng Perio	d 6			
PIMS																											
Space Station Mission Summary Reports														П	]	Ш					j			) [			
SAMS-II																											
Remote Triaxial Sensors (RTS)		CDR	•			De			y Deli	very De	livery	M Deli	sg ivery	UF-1		very	FCF-FIR Delivery	MSRF Deliivery	LTMPF Deliver	y De							
Control Unit (CU)									Design	Ne		R		CDR				Del			Launch (UF-5)	PS .					
Interim Control Unit (ICU)		I	CU ATP											UF-1	OPS						UF-5						
MAMS		PDR	•					CDR						UF-1	OPS												
	SS MILESTONES  SS FACILITIES  FCF  CIR  FIR  SAR  ELESCIENCE  SC Phase 1  SC Phase 2  SS UTILIZATION  PIMS  Space Station Mission Summary Reports  FAMS-II  Remote Triaxial Sensors (RTS)  Control Unit (CU)  Interim Control Unit (ICU)	PROJECT  1st O N D  SS MILESTONES  SS FACILITIES  FCF  CIR  FIR  SAR  ELESCIENCE  SC Phase 1  SC Phase 2  SS UTILIZATION  PIMS  Space Station Mission Summary Reports  AMS-II  Remote Triaxial Sensors (RTS)  Control Unit (CU)  Interim Control Unit (ICU)	TST 2nd	PROJECT    SY   1997   1st   2nd   3rd   O N D   J F M   A M    J    SS   MILESTONES   SS FACILITIES   FCF   CIR   FIR   SAR   FELESCIENCE   SC Phase   1   SC Phase   1   SC Phase   2   SS   UTILIZATION   Mission Summary   Reports   AMS-II   Remote Triaxial   Sensors (RTS)   CDR   COntrol Unit (CU)   Interim Control Unit (ICU)   ICU   ATP   A   A   A   A   A   A   A   A   A	PROJECT    ST   2nd   3rd   4th     O N D   F M   A M   J   A S     SS   MILESTONES     SS FACILITIES     FCF     CIR     FIR     SAR     ELESCIENCE     SC Phase 1     SC Phase 2     SS UTILIZATION     Mission Summary     Reports     AMS-II     Remote Triaxial     Sensors (RTS)     CDR     Control Unit (CU)     Interim Control Unit (ICU)     Interim Control Unit (ICU)	PROJECT    ST   2nd   3rd   4th   1st     O N D   J F M   A M   J   J A S   O N D     SS   MILESTONES   SS FACILITIES     FCF	PROJECT    FY 1997	FY 1997	PROJECT    St   2nd   3rd   4th   1st   2nd   3rd   4th   1st   2nd   3rd   4th   1st   2nd   3rd   4th   1st   2nd   3rd   4th   3rd   4th   3rd   4th   3rd   4th   4t	PROJECT    FY 1997	PROJECT    ST   2nd   3rd   4th   1st   2nd   4th   2nd   4th   2nd   4th   2nd   4th   2nd   2n	PROJECT    St   2nd   3rd   4th   1st   2nd   3rd   4th   2nd   4th   2nd   2n	PROJECT    St   1997   1998   FY   1998   1998   FY   1998   1998   1998   1998   1998   1998   1998   1998   1998   1998   1998   1998	FY 1997	PROJECT	PROJECT   15	PROJECT    PY 1997	PROJECT   1997   1998   FY 1999   FY 2000   FY 2001   1998   1999   19	PROJECT   FY 1997	PROJECT   FY 1997	PROJECT   FY 1997   FY 1998   FY 1998   FY 1998   FY 2000   FY 2001   FY 200	PROJECT    FY 1997	PROJECT    PY 1997	PROJECT    FY 1997   977   977   977   1999   FY 1999   FY 2000   FY 2001   1994   1994   1995   199	PROJECT   FY 1997	PROJECT   197	PROJECT    Provided   Provided



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L	ewis Research Center																		-				JF. 6/22/90		
		1996	-		97				998	1			99			000		2001		2002		003		2004	
	PROJECT			1997				1998				1999			FY 2000			FY 2001	FY 200		FY 2003		FY 2		
		1st	2nd	3rd	4th	1st	2nd J F N	3rd 1 A M J	4th	1st	2nd J F M	3rd A M J	4th	1st	2nd 3rd	J A S	1st O N D	2nd 3rd 4th  J F M A M J J A S O	1st 2nd 3rd	d 4th 1st	2nd 3rd	4th JJASO	1st 2nd	3rd -	4th
	PCS Weitz ISS EXPRESS				MRT ATE		DR							FHA	UF-1 DATA DIS	UF-2		13A  DATA DISKS	UF-3				COMPLETE	D	
	CVB Wayner MSG				SC	R				DR							FHA	11A	UF-3 ↓↓				PLANNING FINAL REP		ES
	DCE Williams CIR								MHRR				PDR/C	DR				FHA _	UF-3 ↑ ♣	UF-5 ↓					
	BCDCE Shaw CIR								SCR/RI	DR			PDR/C	DR				FHA _	UF-3 ↑ ↓	UF-5					
	PHaSE - 2 Chaikin FIR						QFD		SCF						RDR				FHA	UF-5		UF-6	Į.		
13	PCS-2 Weitz FIR						QF	D	SCF						RDR				FHA	UF-5 ↑ Ū		UF-6	i,		
	TIGER-3D Kashiwagi CIR	SCR									JAMIC		RDR		PDR				FHA $\triangle$	↑ <b>UF-5</b>		UF-6	ı		
	SIBAL T'ien CIR											RDF		PDR					FHA	↑ <b>UF-5</b>		UF-6			
16	μgSEG Jenkins FIR							SCI	 						RDR						FHA	UF-6	16A		
17	μSCALE Garoff FIR				:	SCR									RD						FHA	UF-6	16A		
	FIST Fernandez-Pello CIR											SCR	2		RDR			PDR			FHA	UF-6	16A ↓↓↓		
19	Pearlman CIR											SCF	<b>R</b>		RDR			PDR			FHA	UF-6	16A ↓		
20	Nucleate Boiling Dhir FIR								SCR							RDR						FHA	16A LF	1 ↓	
21	Bubbly Suspensions Sangani FIR								SCR							RDR						FHA △	16A LF ↑	<b>1</b>	
22	Magneto-Fluids Liu FIR											sci	R					RDR				FHA	<b>LF 1</b>	LF 2	



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STATUS AS OF: 6/22/98

Lewis Research Center	1996 1997					1998				1	999		20	000		2001					2002			2003			2004		
PROJECT		FY	1997		-	FY 1	998			1999			FY 2000				2001				2002			FY 2				2004	
I KOOLO1	1st	2nd J F M	3rd A M J	4th 1s	t D J	2nd F M	3rd A M J	4th 1st	2nd	3rd	4th	1st	2nd 3rd	4th	1st	2nd J F N	3rd	4th	1st	2nd J F M	3rd A M J	4th	1st S O N D J	2nd J F M	3rd A M J	4th 1st	2nd	3rd 4th	
23 Aqueous Foams																													
Durian F I R								SCR 								RDR										FHA	1	1 LF 2	
Open Capillary Flows Rath FIR										SCR								RDR		EN	то	BE S	UPPLIE	р вү	DLR-	TBD			
25 Cohesion-Adhesion Marshall MSG				SELEC	TION	I				SCR			RDR								FH	- i - ↑ J.	-5	18A	l				
26 Gas-Particle Interaction Louge FIR				SELEC	TION	1					SCR			RDR										FHA		UF-6	16A		
27 Ripple Turbulence Putterman TBD				SELEC	TION	1							SCR			RD	R									FH.	A	LF 2	
28 Colloidal Assmebly Yodh FIR				SELEC	TION	I								SCR				RDR		H	CR - HAI DR - PR	RDWARE ELIMINAI	ESIGN REV CONCEPT RY DESIGN	REVIEW REVIEW		FH.	A		
29 Miscible Interfaces Maxworthy FIR				SELEC	TION	ı								SCR				RDR		Pi Pi R	HA - FLIO IC - PRO SR - PRI DR - RE	FH.	<b>A</b>						
Heat Transfer Seyed-Yagoobi FIR				SELEC	TION	1								SCR				RDR		S/ T/ T'	CR - SCI /0 - TURI VR - TE:	IENCE CO NOVER ST AND \	ONCEPT RE VERIFICATION TION CONTIN	w		FHA			
31 Glovebox Investigations				SELECTIO	1														1	UF3		UF 4							
32 1997 NRA 5 Invest. CIR								SELECT					SCR	-		RDR	l l	-1		7.01								F 1 LF 2	
33 1998 NRA 7 Flight PI's						98	WORK		RELEA	ASE		CTIONS 1-F7				-			SCR				-			RDR		-1	
34 1999 NRA 3 Invest. CIR									WORK	КЅНОР	NRA	RELEAS	SE	SELEC					sc	R	_	H	RDR						
35 2000 NRA 8 Flight PI's													00 WORKS	внор Д	NRA RELE	ASE		SELE F1-F	CTIONS							SC	R		
36 2001 NRA 5 INVEST CIR																WORK	sнор △	NRA F	RELEASE			SELEC	<u> </u>			SCR	-	RDR	
37 2002 NRA 10 Flight Pl's																				02	WORI	KSHOP	NRA RELEA	ASE		SELECTIONS F1-10			
38 2003 NRA 5 INVEST CIR																							w	ORKSH	IOP	NRA RELEAS	iΕ	SELECT $\triangle$	
39 2004 NRA 10 Flight Pl's																												O4 WORK- SHOP	